



COLLEGE OF HEALTH, AGRICULTURE AND NATURAL SCIENCES

DEPARTMENT OF AGRICULTURAL SCIENCES

END OF SECOND SEMESTER FINAL EXAMINATION

COURSE NAAS402: RUMINANT ANIMAL PRODUCTION

APRIL/MAY 2024

DURATION: THREE (3) HOURS

INSTRUCTOR: DR. D. CHIKWANDA

INSTRUCTIONS TO CANDIDATES

Answer ALL questions in **section A** any three questions in **section B**.

SECTION A: Answer **all** questions.

Question 1

a. Highlight:

i) Any **five** (5) causes of reproductive wastage in goats in an extensive production system. [5]

ii) The advantages of flushing of ewes; [5]

iii) The characteristics of the indigenous sheep breed found in Zimbabwe. [5]

b. Explain the importance of:

i. Culling. [3]

ii. Mastitis in dairy cattle production; [3]

iii. Body condition score; [3]

iv. Dehorning in dairy cattle, and, [3]

v. Weaning weight in beef cattle. [4]

c. Outline the effects of ammonia accumulation in a goat house. [4]

d. Explore the advantages of electronic identification in beef traceability systems. [5]

SECTION B: Answer any **three** questions from this section.

Question 2

A neighbouring farmer to AU has asked for advice on the resources he would need to start up a goat production enterprise. Advise the farmer on any **four** (4) resources. [20]

Question 3

Explore the various feeding systems used in dairy production.

[20]

Question 4

Discuss the relevance of ruminant animals in the attainment of the sustainable development goals.

[20]

Question 5

Ruminant livestock production systems have been blamed as one of the largest contributors to climate change. Critique this assertion.

[20]

Question 6

Discuss the effects of poor nutrition in tropical beef production systems.

[20]

END OF QUESTION PAPER!!!